

1.0 INTRODUCTION

This revised "Los Alamos National Laboratory Technical Area 50 Part B Permit Renewal Application" is submitted to address the requirements of the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20.4.1 NMAC), revised June 14, 2000 [6-14-00], specific to hazardous and mixed waste operations at Technical Area (TA) 50 at Los Alamos National Laboratory (LANL). Waste management units to be permitted include two container storage units located at TA-50, Building 69 (TA-50-69). This document serves as Revision 3.0 to the "Technical Area 50 Part B Permit Renewal Application," Revision 1.0, submitted to the New Mexico Environment Department (NMED) in January 1999 (LANL, 1999).

This document has been formatted to meet the permitting strategy outlined by the NMED Hazardous and Radioactive Materials Bureau (HRMB) in correspondence dated February 5, 1998 (NMED, 1998). As presented in this correspondence, TA-specific permit applications, permit modification requests, and permit renewal documents will cover any details and/or requirements not addressed in the "Los Alamos National Laboratory General Part B Permit Application," Revision 1.0 (LANL, 1998a) or most recent version, hereinafter referred to as the LANL General Part B. The LANL General Part B will serve in the operating permit as an "umbrella" document, covering the requirements of the New Mexico Hazardous Waste Act and implementing regulations, specifically 20.4.1 NMAC [6-14-00], common to all TAs. Together, information provided in this permit application and in the LANL General Part B will meet the applicable requirements specified in 20.4.1 NMAC, Subparts V and IX [6-14-00].

This permit renewal document addresses revisions agreed upon in the "Response to Request for Supplemental Information: Technical Adequacy Review, Resource Conservation and Recovery Act Permit Application; TA-50 Part B, December 2000, Revision 2.0; Los Alamos National Laboratory, U.S. Environmental Protection Agency ID No. NM0890010515," submitted to the NMED in November 2001 (LANL, 2001), and the "Response to Notice of Deficiency; TA-50 Part B Permit Application, Revision 2.0, March 4, 2002," submitted to the NMED in April 2002 (LANL, 2002a).

In accordance with HRMB's permitting strategy, LANL submitted the "Los Alamos National Laboratory General Part A Permit Application," Revision 0.0 (LANL, 1998b) or most recent version, hereinafter referred to as the LANL General Part A. The LANL General Part A consolidated information from previous site-wide and TA-specific Part A submittals into one comprehensive document, identifying all hazardous and mixed waste treatment, storage, and disposal facilities subject to 20.4.1 NMAC, Subparts V, VI, and IX [6-14-00] at LANL as of April 30, 1998. The LANL General Part A serves as a

companion document to the LANL General Part B and TA-specific permit applications, permit modification requests, and permit renewal documents, including this revised permit renewal application.

In the LANL General Part A, the LANL General Part B, and the revised permit renewal application, a unit to be permitted or an area within LANL may sometimes be referred to as a facility. The term “facility,” as it appears in this context, is used only to denote building or area names and does not imply the regulatory meaning of “facility” as defined in 20.4.1 NMAC, Subpart I, 260.1 [6-14-00]. However, pursuant to 20.4.1 NMAC, Subpart I, 260.1 [6-14-00], the “LANL facility” as a whole does meet the regulatory definition of a facility.

Table 1-1 provides a list of regulatory references and the corresponding location in this permit application, as appropriate. Where applicable, regulatory citations in this document reference 20.4.1 NMAC, which adopts, with a few exceptions, all of the Code of Federal Regulations, Title 40, Parts 260 to 266, Part 268, Part 270, and Part 273.

Table 1-1
Regulatory References and Corresponding Permit Application Location

Regulatory Citation(s)	Description of Requirement	Location in this Permit Application
§270.14(b)(1)	General facility description	Attachment A
§270.14(b)(2)	Chemical and physical analyses of hazardous waste	Attachment B ^a
§270.14(b)(3)	Waste analysis plan	Attachments B ^a
§264.13(b)	Development and implementation of a written waste analysis plan	Attachments B ^a
§264.13(c)	Off-site waste analysis requirements	Attachments B ^a
§270.14(b)(4)	Security procedures and equipment	Attachment G
§270.14(b)(5)	General inspection schedule	Attachment C ^a
§264.174	Inspections/containers	Attachment C ^a
§264.193(i)	Tank system inspections pending provision of adequate secondary containment	NA
§264.195	Overfill control inspections	NA
§264.602	Miscellaneous units	NA
§264.1033	Process vent standards	NA
§264.1052	Equipment leak air emission standards	NA
§264.1053	Compressor standards	NA
§264.1058	Standards for pumps, valves, pressure relief devices, flanges, and connections	NA
264.1088	Subpart CC inspection air monitoring requirements	Attachment C, Attachment G
§270.14(b)(6)	Request for waiver from preparedness and prevention requirements of 264 Subpart C	NA
§270.14(b)(7)	Contingency Plan	Attachment E ^a
§270.14(b)(8)	Description of preparedness and prevention	Attachment G
§270.14(b)(8)(i)	Hazard prevention in unloading operations	Attachment G

See footnotes at end of table.

Table 1-1 (continued)

Regulatory References and Corresponding Permit Application Location

Regulatory Citation(s)	Description of Requirement	Location in this Permit Application
§270.14(b)(8)(ii)	Runoff prevention	2.0, Attachment G
§270.14(b)(8)(iii)	Contamination prevention of water supplies	Attachment G
§270.14(b)(8)(iv)	Mitigation of equipment failure and power outages	Attachment G
§270.14(b)(8)(v)	Prevention of undue exposure of personnel to hazardous waste	Attachment G
§270.14(b)(8)(vi)	Prevention of releases to the atmosphere	Attachment G
§270.14(b)(9)	Prevention of accidental ignition or reaction of ignitable, reactive, or incompatible wastes	2.0, Attachment G
§264.17(c)	Documentation of compliance with 264.17 (general requirements for ignitable, reactive, or incompatible wastes)	2.0, Attachment G
§270.14(b)(10)	Traffic pattern, volume, and controls	Attachment A ^a
§270.14(b)(11)	Facility/unit location information	Attachment A
§270.14(b)(11)(i)	Seismic standard applicability [264.18(a)]	Attachment A
§270.14(b)(11)(ii)	Seismic standard requirements	Attachment A
§270.14(b)(11)(ii)(A)	No fault within 3,000 feet (ft) with displacement in Holocene time	Attachment A
§270.14(b)(11)(ii)(B)	If faults which have displacement in Holocene time are present within 3,000 ft, no faults pass within 200 ft of portions of the facility where treatment, storage, or disposal will be conducted	NA
§270.14(b)(11)(iii)	100-year floodplain standard	Attachment A ^a
§270.14(b)(11)(iv)	Facilities located within the 100-year floodplain	NA
§270.14(b)(11)(v)	Compliance schedule for 264.18(b)	NA
§270.14(b)(12)	Personnel training program	Attachment D ^a

See footnotes at end of table

Table 1-1 (continued)

Regulatory References and Corresponding Permit Application Location

Regulatory Citation(s)	Description of Requirement	Location in this Permit Application
§270.14(b)(13)	Closure and post-closure plans	Attachment F
§264, Subpart G	Closure and post-closure	Attachments F
§264.178	Closure/containers	Attachment F
§264.197	Closure and post-closure care/tanks	Attachment F
§264.601	Closure/miscellaneous units	Attachment F
§264.603	Requirements by the Secretary	Attachments F
§270.14(b)(14)	Post-closure notices (264.119)	Attachments F
§270.14(b)(15)	Closure cost estimate (264.142)	Attachments F
§270.14(b)(16)	Post-closure cost estimate (264.144)	Attachments F
§270.14(b)(17)	Liability insurance (264.147)	Attachments F
§270.14(b)(18)	Proof of financial coverage (264.149-150)	Attachments F
§270.14(b)(19)	Topographic map requirements	Attachment A ^b
§270.14(b)(19)(i)	Map scale and date	Attachment A ^b
§270.14(b)(19)(ii)	100-year floodplain area	Attachment A ^b
§270.14(b)(19)(iii)	Surface waters	Attachment A
§270.14(b)(19)(iv)	Surrounding land uses	Attachment A
§270.14(b)(19)(v)	Wind rose	Attachment A
§270.14(b)(19)(vi)	Map orientation	Attachment A ^b

See footnotes at end of table.

Table 1-1 (continued)

Regulatory References and Corresponding Permit Application Location

Regulatory Citation(s)	Description of Requirement	Location in this Permit Application
§270.14(b)(19)(vii)	Legal boundaries	Attachment A ^b
§270.14(b)(19)(viii)	Access control	Attachment A
§270.14(b)(19)(ix)	Wells	Attachment A
§270.14(b)(19)(x)	Buildings	Attachment A
§270.14(b)(19)(xi)	Drainage barriers or flood control	Attachment A
§270.14(b)(19)(xii)	Location of operational units	Attachment A
§270.14(b)(20)	Other federal laws	3.0 ^a
§270.14(b)(20)(a)	Wild and Scenic Rivers Act	3.0 ^a
§270.14(b)(20)(b)	National Historic Preservation Act	3.0 ^a
§270.14(b)(20)(c)	Endangered Species Act	3.0 ^a
§270.14(b)(20)(d)	Coastal Zone Management	3.0 ^a
§270.14(b)(20)(e)	Fish and Wildlife Coordination Act	3.0 ^a
§270.14(b)(20)(f)	Executive Orders	3.0 ^a
§270.14(b)(21)	Notice of extension approval for land disposal facilities	NA
§270.14(c)	Groundwater monitoring requirements	Attachment A ^a
§270.14(d)	Information requirements for solid waste management units (SWMU)	4.0
§270.14(d)(1)(i)	Location of SWMUs on topographic map	4.0
§270.14(d)(1)(ii)	Types of SWMUs	4.0
§270.14(d)(1)(iii)	Dimensions and descriptions of SWMUs	4.0
§270.14(d)(1)(iv)	Dates of SWMU operations	4.0

See footnotes at end of table.

Table 1-1 (continued)

Regulatory References and Corresponding Permit Application Location

Regulatory Citation(s)	Description of Requirement	Location in this Permit Application
§270.14(d)(1)(v)	Waste types managed at SWMUs	4.0
§270.14(d)(2)	Information on releases from SWMUs	4.0
§270.14(d)(3)	RCRA Facility Assessment sampling and analysis results	NA
§270.15	Information requirements for containers	Attachment G
§270.16	Information requirements for tank systems	NA
§270.23	Information requirements for miscellaneous units	NA

^a Requirement or information is also addressed in the "Los Alamos National Laboratory General Part B Permit Application," Revision 1.0, as appropriate, 1998a, Los Alamos National Laboratory, Los Alamos, New Mexico.

^b Some of the topographic map requirements are addressed in the "Los Alamos National Laboratory General Part A Permit Application," Revision 0.0, 1998b, Los Alamos National Laboratory, Los Alamos, New Mexico.

NA = not applicable.